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Comparative results in the treatment of clavicle fractures

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Abstract

Background: The negative results of the clavicle fractures treatment represent a high percentage, which implies the search of new methods designed to improve these results. Thus, a new method of stable and functional osteosynthesis of the clavicle fractures were proposed for this improvement, namely that performed with the external fixator. In connection with this, a comparative analysis of the results between the stability and efficacy of osteosynthesis of the the clavicle fractures by using the external fixator proposed by us and the traditional methods was conducted.

Material and methods: For a better deduction and evaluation of the clavicle fractures treatment methods, it was established a task based on a clinical-radiological examination at 124 patients with clavicle fracture, which constitutes 2.7% of the number of patients hospitalized with skeletal fractures. Thus, for better surgical treatment results of clavicle fractures at the patients, was introduced a new stable and functional osteosynthesis method of the clavicle fracture treatment with an external fixator.

Results: The application of the stable-functional osteosynthesis method of the clavicle fractures with an external fixator's help succeeded in a reduction of the medium – term work incapacity, the quantity of mistakes and complications reduction and the considerable increase of the positive results of the treatment, while not neglecting the economic aspect on the background of the shortcomings exclusion of traditional surgical methods.

Conclusions: The stable and functional osteosynthesis method of the clavicle fractures treatment with an external fixator versus the traditional treatment methods ensures the possibility of early functional treatment, also reducing the average of work incapacity term, mistakes and complications appeared as consequences of traditional treatment methods application and offers the possibility to use it at all specialized surgical care levels.

Key words: osteosynthesis, external fixator, clavicular fracture.